

# Amphibia, Anura, Hylidae, *Cruziohyla craspedopus* (Funkhouser, 1957): Distribution extension, new state record and distribution map in Brazil

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**ABSTRACT:** This note reports the presence of *Cruziohyla craspedopus* at the municipality of Cotriguaçu, state of Mato Grosso, central Brazil. This is the second known locality for this species in Brazil.

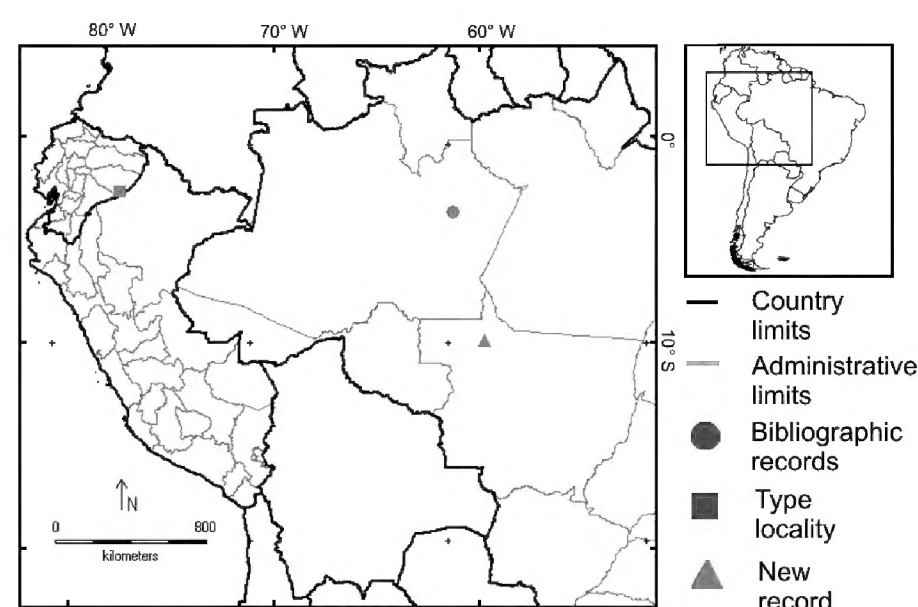
*Cruziohyla craspedopus* inhabits the Amazonian lowlands of Colombia, Ecuador, Peru, and Brazil (Hoogmoed and Cadle 1991; Lima *et al.* 2003; Faivovich *et al.* 2005; Frost 2010). In Brazil, it is known to occur only in the municipality of Castanho, state of Amazonas (Lima *et al.*, 2003). For the state of Mato Grosso, Brazil, no records have been published, and herein we report the first locality of this species in the state. Voucher specimens reported in this note are housed in the herpetological collection of Universidade Federal de Mato Grosso (UFMT), campus of Sinop - UFMT-S (female), and campus Cuiabá - UFMT (male), MT, Brazil.

On 10 December 2009, one amplexant pair of *Cruziohyla craspedopus* (female UFMT 053, SVL = 70.4 mm; and male UFMT 10943, SVL = 60.5 mm) was found inside a 60-litre bucket in primary forest at São Nicolau farm, municipality of Cotriguaçu (9°51'16.9" S, 58°14'57.7" W; 200 m), state of Mato Grosso, Brazil (collection permits #10174-1, Instituto Brasileiro do Meio Ambiente e dos Recursos Naturais Renováveis – IBAMA). This new record extends the range of the species to southern Brazilian Amazonia, approximately 2,100 km NW from the type-locality (municipality of Chicherota, Rio Bobonaza, province of Pastaza, Ecuador, 02°22' S, 76°38' W; 450 m) and 740 km S in a straight-line from the first Brazilian locality (municipality of Castanho, state of Amazonas, Brazil, 03°21'16.8" S, 59°51'37.9" W) (Figure 1).

Both specimens showed the characteristic coloration of *Cruziohyla craspedopus* (see Hoogmoed and Cadle 1991), having dark green head, body, forearms, thighs, shanks, and dermal fringes; with numerous grayish white blotches scattered on dorsal surfaces in an irregular pattern; varying from thin cobweb-like patterns to large irregular blotches; grayish white iris with fine black reticulations. A narrow, shallowly scalloped dermal fringe is present on the margin of the lower jaw, and on the outer edge of the forearm. The outer edge of the tarsus bears a broad dermal fringe that is expanded distally into a long pointed

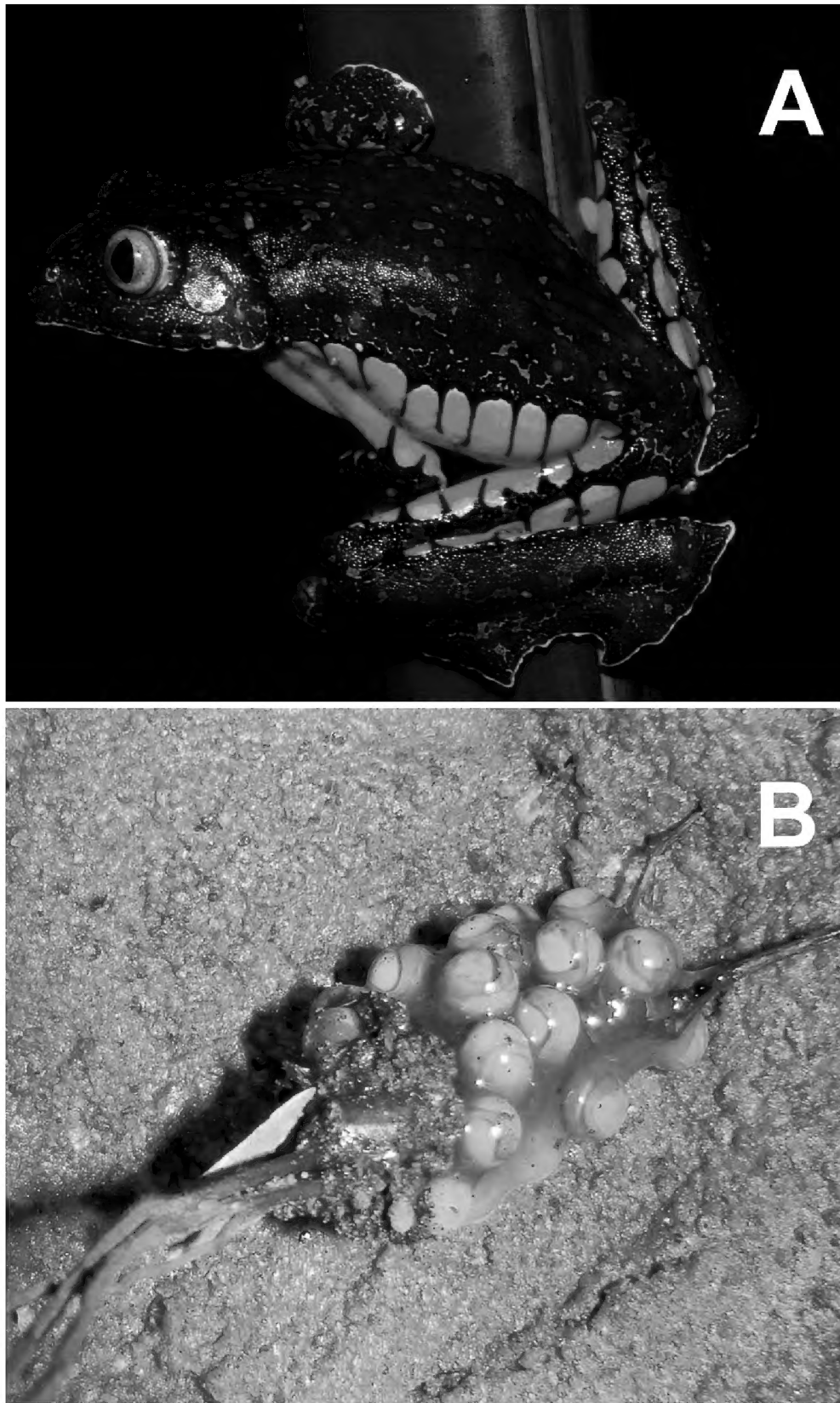
calcar and two additional triangular flaps (Figure 2A).

Observed mating behavior and clutch size were similar to those reported by Hoogmoed and Cadle (1991) and Block *et al.* (2003). Three clutches of *Cruziohyla craspedopus* were observed in primary forest. One clutch was found attached to small roots inside a pitfall trap scattered through the forest on 14 September. On 10 September 2009, a pair was observed around 05:30h in a pitfall trap (60-Litre bucket) above the water on the bottom of the bucket. The female laid a 21-egg clutch and attached it to small roots above the water with help from the male (Figure 2B). On 10 December 2009, a clutch was found already wrapped in leaves close to the pair.



**FIGURE 1.** Known distribution of *Cruziohyla craspedopus* in Brazil. The blue circle indicates the previous known locality in Brazil (Castanho, state of Amazonas; Lima *et al.* 2003), the red triangle indicates the new locality herein reported (São Nicolau Farm, municipality of Cotriguaçu, Mato Grosso state, Brazil), and the blue square shows the type locality (Chicherota, Rio Bobonaza, Ecuador; Funkhouser 1957).

*Cruziohyla craspedopus* is currently classified as Least Concern by the 2010 IUCN Red List of Threatened Species (Angulo *et al.* 2004). Unfortunately, some localities where it was recorded (*e.g.* municipality of Cotriguaçu) have suffered significant habitat changes and fragmentation, making it necessary to monitor the populations in order to



**FIGURE 2.** (A) *Cruziohyla craspedopus* (UFMT 10943) from São Nicolau farm, municipality of Cotriguaçu, state of Mato Grosso, Brazil, showing the typical coloration pattern, including lichen-like dorsal markings, dermal fringes on hind limbs, and orange-yellow lower flanks with narrow vertical black bars. (B) Egg clutch attached to roots. Photos by R.A. Kawashita-Ribeiro and D.J. Rodrigues, respectively.

study the effects of anthropogenic activities. The presence of *C. craspedopus* in northern Mato Grosso (southern Amazonia) suggests that it may be more widespread than previously recognized across the Amazon basin (Hoogmoed and Cadle 1991).

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